明治十九年十月刊行

明治十九年三月

定價金拾三錢

観測士 海軍大尉 山崎喜勝閲
観測助手 海軍一等技手 中川將行
同 海軍二等技手 伊藤直温
同 海軍八等技手 小澤兼藏
同 海軍屬 日比翁輔
同 海軍屬 白井正信
同 海軍十等技手 永江董

(Signed) Observer.
Y. Yamazaki.

Assistant.
M. Nakagawa.
" N. Itō.
" K. Ozawa.
" O. Hibi.
" M. Shirai.
" T. Nagaye.

REMARKS.

Day.	
1	*d.*; R. at 3 a.m.
2	R. at intervals in a.m.; F. in morning; B. C. in p.m.; *f.p.* in night.
3	*d.*; R. at 10.40 a.m.; R. at intervals in night.
4	B. in day.; R. at intervals in night.
5	B. C. in day.; *f.p.* in night.
6	B.; *f.p.* after 3 p.m.; E. about 0.39 p.m.
7	B. in a.m.; *d.* in p.m.; *l.h.* about 7 p.m.
8	R. to 3 a.m.; *f.p.* from 6 a.m.
9	B. in a.m.; C. in p.m.; R. after 7 p.m.
10	R. to 3 a.m.; *d.*; R. at intervals from noon.
11	*d.* in day.; R. at intervals in night.
12	*d.*; *r. b.* about 5 a.m.; L. on the south, past 8 p.m.; E. about 8.41 p.m.
13	C. in all day.
14	B. C.; R. at 6.30 a.m.; *f.p.* in night.; E. about 3.10 p.m.
15	B. C.; M. in morning.; C. after 7 p.m.
16	R. 5 a.m.—8 a.m.; *r. b.* about 6.30 a.m.; *f.d.*; E. about 1.40 p.m.
17	*d.*, with R. at intervals; L. on the S. *W.* past 7 p.m.; T. on the W., about 8 p.m.; S. w_2 in p.m.
18	R. at intervals in a.m.; B. C. in p.m.; *f.p.* in night.; S. w_2 in day.
19	B; *d.* from 5 p.m.; R. 6 p.m.—9 p.m.
20	C. in all day.; E. about 1.43 p.m.
21	C. in all day.; E. about 8.17 p.m.
22	C., with R. at intervals.
23	C. to past 10 a.m.; R. afterward.
24	R. to 3 a.m.; C., with R. at intervals.; S. w_3 after 10 p.m.
25	*d.*, with R. at intervals.; *r. b.* past 7 a.m.; B. after 10 a.m.; S. w_4. in a.m.; Baromter especially falls.
26	R. after 2 a.m.
27	R. to 8.30 a.m.; *d.*; R. at 10 p.m.
28	B. C. in day.; *d.* in night.
29	C., with R. at intervals.
30	C., with R. at intervals in a.m.

記事

一日 薄陰午前三時頃暫時微雨
二日 午前時々降雨又朝霧アリ午後半晴夜來快晴
三日 薄陰午前十時四十分暫時微雨夜來時々降雨
四日 晝間晴夜間時々降雨
五日 晝間半晴夜間快晴
六日 晴午後三時過快晴 午後零時三十九分頃地震ス
七日 午前晴午後薄陰同七時頃月暈ヲ帯フ
八日 午前三時頃マテ降雨同六時頃ヨリ快晴
九日 午前晴午後漸々陰同七時頃ヨリ降雨
十日 午前三時頃宿雨歇ミ後薄陰正午頃ヨリ時々復降雨
十一日 晝間薄陰夜間時々微雨
十二日 薄陰午前五時頃虹現出シ午後八時過南方ニ電光アリ 午後八時四十一分頃地震ス
十三日 終日陰天
十四日 半晴午前六時三十分頃暫時細雨夜來快晴 午後三時十分頃地震ス
十五日 半晴朝霧稍濃厚午後七時過漸々陰
十六日 午前五時頃ヨリ降雨同六時三十分頃虹現出シ同八時頃雨歇ミ後薄晴 午後一時四十分頃地震ス
十七日 薄陰時々降雨午後七時過南西ニ電光アリ同八時頃西方ニ雷鳴ス午後南風稍强
十八日 午前時々降雨午後半晴夜來快晴晝間南風稍强
十九日 晴午後五時頃ヨリ薄陰同六時頃ヨリ同九時頃迄降雨
二十日 終日陰天 午後一時四十三分頃地震ス
廿一日 終日陰天 午後八時十七分頃地震ス
廿二日 陰天時々降雨
廿三日 午前十時過迄陰天後降雨
廿四日 午前三時頃宿雨歇ミ後陰天時々復降雨午後十時頃ヨリ南强風
廿五日 薄陰時々降雨午前七時過虹現出シ同十時頃ヨリ快晴午前南强風々雨鍼殊ニ降下セリ
廿六日 午前二時過ヨリ續テ降雨
廿七日 午前八時三十分頃宿雨歇ミ爾後薄陰午後十時頃暫時踈雨
廿八日 晝間半晴夜間薄陰
廿九日 陰天時々微雨
三十日 陰天午前時々微雨

地平磁力

HORIZONTAL INTENSITY.

4th Beginning / Ending time $2^h\ 45^m$ / 3 50 P. M. 四日午後二時四十五分ヨリ同三時五十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean ′ ″
東 East.	E.	1	60 37 40	37 0	37 20				
	W.					2	53 59 20	58 40	59 0
	E.	3	60 38 20	37 40	38 0				
	W.					4	54 0 0	59 30	59 45
	E.	5	60 38 40	38 0	38 20				
平均 Means			60° 37′ 53.3″				53° 59′ 22.5″		
西 West.	W.					6	53 56 20	55 40	56 0
	E.	7	60 32 20	31 40	32 0				
	W.					8	53 56 40	56 0	56 20
	E.	9	60 32 20	31 40	32 0				
	W.					10	53 56 50	56 20	56 35
平均 Means.			60° 32′ 0.″0				53° 56′ 18″.3		

平均温度 Mean Temperature t = 84°.3 fah.

偏針角 Angle of Deflection u = 3° 18′ 33″.1

揺振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	3	37	34.5	83.0	1.0	59.0		
10	3	38	19.0					
20	3	39	3.2					
31	3	39	52.8					
41	3	40	37.0					
51	3	41	21.5					
100	3	45	0.0				7	25.5
110	3	45	44.2					25.2
120	3	46	28.8					25.6
131	3	47	18.0					25.2
141	3	48	2.5					25.5
151	3	48	47.0	81.4	14.2	45.1		25.5
平均 Means.				82.2			7	25.42

物捩差 Mean effect of 90° of Torsion v = 4.15

時儀日差 Daily rate $s = 2.^s18$ losing.

成果 Resulting absolute value X = 6.3185

27th Beginning / Ending time $3^h\ 45^m$ / 4 50 P. M. 廿七日午後三時四十五分ヨリ同四時五十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	181 32 0	31 20	31 40				
	W.					2	174 55 20	54 40	55 0
	E.	3	181 32 20	31 40	32 0				
	W.					4	174 55 20	54 40	55 0
	E.	5	181 32 20	31 50	32 10				
平均 Means.			181° 31′ 56″.7				174° 55′ 0″.0		
西 West.	W.					6	174° 51′ 0″	50 0	50 30
	E.	7	181 26 0	25 10	25 35				
	W.					8	174 51 0	50 0	50 30
	E.	9	181 26 20	25 20	25 50				
	W.					10	174 51 0	50 0	50 30
平均 Means.			181° 25′ 42″.5				174° 50′ 20″.0		

平均温度 Mean Temperature t = 75°.0 fah.

偏針角 Angle of Deflection u = 3° 18′ 2.″3

揺振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	34	38.5	74.5	1.2	58.8		
10	4	35	23.0					
20	4	36	7.5					
31	4	36	56.3					
41	4	37	40.8					
51	4	38	25.5					
100	4	42	4.0				7	25.5
110	4	42	48.3					25.3
120	4	43	33.2					25.7
131	4	44	22.0					25.7
141	4	45	6.2					25.4
151	4	45	51.0	74.5	15.0	45.0		25.5
平均 Means.				74.5			7	25.52

物捩差 Mean effect of 90° of Torsion v = 3.32

時儀日差 Daily rate $s = 1.^s65$ losing.

成果 Resulting absolute value X = 6.3269

磁氣觀測之月報

東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 2.3	5	4 2.7	9	4 7.5	13	4 3.2	17	4 5 0	21	4 6.4	25	4 6.0	29	4 6.4
2	4 2 3	6	4 4.5	10	4 5.0	14	4 6.1	18	4 6.4	22	4 9.1	26	4 6.7	30	4 6.8
3	4 3.6	7	4 6.0	11	4 7.5	15	4 7.1	19	4 6.7	23	4 5.8	27	4 6.4		
4	4 5.2	8	4 5 4	12	4 5.6	16	4 1.9	20	4 5.8	24	4 7 2	28	4 6.9		

平均 Mean = 4° 5′.58

磁氣傾差
Magnetic Inclination.

4th Beginning / Ending time 4^h 30^m / 5 3 P. M. 四日午後四時三十分ヨリ同五時三分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 31	49 32	49 41	49 41	49 24	49 20	49 15	49 10	49 30	49 34	49 0	49 4	49 34	49 31	49 2	49 5
49 29	49 31	49 37	49 37	49 20	49 15	49 21	49 15	49 32	49 36	49 1	49 5	49 33	49 31	49 1	49 2
49 30 0	49 31.5	49 39.0	49 39.0	49 22.0	49 17.5	49 18.0	49 12.5	49 31.0	49 35.0	49 0.5	49 4.5	49 33.5	49 31.0	49 1.5	49 3.5
49 30.8		49 39.0		49 19.7		49 15.3		49 33.0		49 2.5		49 32.3		49 2.5	
49 34.9				49 17 5				49 17.8				49 17.4			
49 26.2								49 17.6							

成果 Resulting Dip = 49°21′.9

27th Beginning / Ending time 5^h 15^m / 5 45 P. M. 廿七日午後五時十五分ヨリ同時四十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 45	49 44	49 39	49 35	49 48	49 49	49 35	49 30	49 45	49 51	49 18	49 17	49 49	49 50	49 31	49 30
49 48	49 47	49 50	49 47	49 42	49 39	49 32	49 29	49 49	49 51	49 15	49 17	50 5	50 7	49 32	49 31
49 46.5	49 45.5	49 44.5	49 41.0	49 45.0	49 44.0	49 33.0	49 29.5	49 47.0	49 51.0	49 16 5	49 17.0	49 57.0	49 58.5	49 31.5	49 30 5
49 46.0		49 42.8		49 44 5		49 31.5		49 49.0		49 16.8		49 57.8		49 31.0	
49 44.4				49 38.0				49 32.9				49 44.4			
49 41 2								49 38.6							

成果 Resulting Dip = 49° 39′.9

天候
WEATHER.

日次 Date	雲之種類 Kind of Cloud: 卷雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	...	7	...	...	...	1	...	...	...	8.4	...
2	...	1	...	5	...	...	...	1	...	1	...	5.3	0.14
3	...	...	...	5	...	1	...	1	...	1	...	7.5	0.02
4	...	...	...	5	...	...	...	3	...	...	...	6.5	0.78
5	...	...	...	7	...	...	...	...	...	...	1	4.0	0.19
6	...	...	...	5	1	...	1	...	...	...	1	2.5	...
7	...	...	...	6	1	...	...	...	...	...	1	6.1	...
8	...	...	...	5	...	...	...	1	...	...	2	2.5	0.03
9	...	...	...	5	...	...	...	2	...	...	1	5.9	...
10	...	...	...	4	...	1	...	3	...	...	...	8.6	3.53
11	...	...	...	6	...	1	...	1	...	...	...	9.0	0.32
12	...	...	...	8	...	...	...	...	...	...	...	8.3	0.02
13	...	1	...	2	...	5	...	...	...	...	...	9.3	...
14	...	...	2	4	...	2	...	...	...	...	...	7.0	...
15	...	...	...	6	...	...	1	...	...	1	...	4.6	...
16	...	1	...	7	...	...	...	...	...	...	...	8.4	0.17
17	...	2	...	6	...	...	...	...	...	...	...	8.3	...
18	...	...	...	7	...	...	...	...	...	...	1	7.0	0.50
19	...	1	...	5	1	1	...	...	...	...	...	5.1	...
20	...	4	...	1	...	3	...	...	...	...	...	9.6	0.40
21	...	...	6	2	...	...	...	...	...	...	...	10.0	...
22	...	1	1	1	...	...	2	3	...	...	...	9.8	0.13
23	...	...	...	1	...	1	1	5	...	...	...	10.0	0.07
24	...	1	...	1	...	...	...	6	...	...	...	9.1	0.73
25	...	...	2	2	1	...	1	2	...	...	...	4.3	0.71
26	...	...	...	...	...	...	...	8	...	...	...	10.0	0.93
27	...	...	...	5	...	1	...	2	...	...	...	8.8	2.33
28	...	...	...	4	...	1	2	1	...	...	...	7.8	...
29	...	...	...	2	...	2	...	3	...	1	...	8.3	0.04
30	...	...	...	5	...	...	...	3	...	...	...	9.6	0.37
合計 Sums.	...	12	11	179	4	19	8	46	...	4	7	...	11.41
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	7.4	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	3	23.4	3	19.0	...	...	...	...	...	...	...	...	...	...	18	85.8	24	128.2	N.W.	9.8
2	1	...	...	12	46 9	1	5.6	1	6.7	9	55.3	...	...	...	...	...	...	24	114.5	S.	11.8
3	2	...	...	2	18·4	10	67.0	1	6.0	9	39 4	...	...	...	...	...	...	24	130.8	E.	13.3
4	...	...	...	2	20.6	3	29.3	4	42.5	15	213.1	...	...	...	...	...	...	24	305.5	S.	20.1
5	...	...	...	...	...	...	...	...	...	24	321.4	...	...	...	...	...	...	24	321.4	S.	20.1
6	...	...	...	...	...	...	...	...	...	24	339.4	...	...	...	...	...	...	24	339.4	S.	20.7
7	...	...	...	...	...	...	...	...	...	24	143.8	...	...	...	...	...	...	24	143.8	S.	9.8
8	...	...	...	...	...	...	...	...	...	23	240.0	1	4.3	...	...	...	...	24	244 3	S.	20.4
9	...	...	...	1	15.3	3	20.2	5	43.5	15	42 7	...	...	...	...	...	...	24	121.7	N·E.	15.3
10	...	1	18.3	1	17.1	...	...	...	...	15	178.6	2	15.1	4	29.6	1	21.4	24	280.1	N.W.	21 4
11	...	...	...	...	...	...	...	...	...	24	504.8	...	...	...	...	...	...	24	504.8	S.	23.4
12	3	...	...	...	...	...	...	...	...	3	55.6	18	213.6	...	...	...	...	24	269 2	S.	20.2
13	...	...	...	13	125 7	6	42.4	...	...	1	4.6	4	23.6	...	...	...	...	24	196.3	N.E.	12.6
14	...	...	...	14	57.9	10	50 4	...	...	...	...	...	...	...	...	...	...	24	103.3	E.	6.8
15	...	...	...	...	...	14	33.5	10	63.1	...	...	...	...	...	...	...	...	24	96.6	S.E.	10.3
16	2	...	...	...	...	...	...	16	72 3	6	31.3	...	...	...	...	...	...	24	103.6	S.E.	10.5
17	...	...	...	...	...	...	...	7	71.1	17	288.4	...	...	...	...	...	...	24	359.5	S.	24.6
18	...	...	...	...	...	...	...	...	...	10	242.3	13	228.6	...	...	1	7.2	24	478.1	S.W.	33.0
19	...	10	55 9	4	19.2	3	12.3	5	38.7	...	...	...	...	...	...	2	16.9	24	143.0	S.E.	11.2
20	...	9	29.9	5	28.8	10	44.7	...	...	...	...	...	...	...	...	...	...	24	103.4	N.E	8.5
21	...	14	88.7	...	...	2	5.3	...	...	...	...	...	...	...	...	8	46.7	24	140.7	N.	8.4
22	...	6	36.6	...	...	...	...	...	...	2	36 3	3	40.1	...	...	13	40.1	24	153.1	S.	23.6
23	...	4	15.6	20	105.3	...	...	...	...	...	...	...	...	...	...	...	...	24	120.9	N.E.	7.2
24	...	16	121.7	1	6.8	...	...	2	27.8	1	29.9	...	...	2	3.1	2	21.7	24	211.0	S.	29 9
25	...	...	...	...	...	...	...	...	...	15	434.8	5	88.1	2	5.7	2	14.7	24	543.3	S.	* 43.9
26	...	23	242 5	1	13.9	...	...	...	...	...	...	...	...	...	...	...	...	24	256.4	N.	15.9
27	...	6	83.0	3	34.1	2	9.3	7	50.4	...	...	...	...	...	...	6	100.9	24	277.7	N.	18.8
28	...	1	5.1	5	22.6	2	8.0	16	60.9	...	...	...	...	...	...	...	...	24	96.6	S.E.	11.4
29	...	6	41.3	6	26.7	1	4.7	...	...	...	...	...	...	...	...	11	20.4	24	93.1	N.	7.6
30	5	17	20.2	...	...	...	...	...	...	...	...	...	...	...	...	2	9.3	24	29 5	N.	6.0
計合 Sums.	13	116	782.2	93	578.3	67	332.7	74	483.0	237	3201.7	46	613.4	8	38.4	66	385.1	720	6414.8	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.	43.9

濕氣百分數
HUMIDITY.
(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	子正 Midnight.
1	89	90	71	62	60	71	79	81
2	95	99	95	63	54	75	83	94
3	95	97	87	66	61	79	96	97
4	99	96	79	77	68	82	87	85
5	88	84	73	66	70	75	88	86
6	88	84	67	60	62	75	84	89
7	93	95	77	68	63	73	82	92
8	97	92	64	66	68	77	83	92
9	94	95	75	63	58	73	79	90
10	90	97	77	85	93	89	86	89
11	89	88	80	76	83	87	88	88
12	90	89	73	66	65	75	87	92
13	94	93	84	78	76	82	89	93
14	97	98	91	78	65	77	85	95
15	98	100	86	58	65	82	89	90
16	93	90	73	67	71	85	86	87
17	89	89	75	70	83	85	87	89
18	88	84	79	68	70	76	83	66
19	73	74	59	58	51	81	97	97
20	96	95	89	74	68	78	80	86
21	86	83	78	78	74	83	88	91
22	96	99	81	89	75	85	92	93
23	84	83	74	86	87	91	93	88
24	98	97	98	94	95	99	99	84
25	88	79	85	59	51	71	74	76
26	79	95	98	94	96	99	96	99
27	93	99	92	68	65	77	83	85
28	94	90	74	58	61	84	83	90
29	95	99	82	80	94	95	98	100
30	93	99	90	83	86	89	96	98
平均 Means.	92	92	80	72	71	82	87	89

蒸發力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.694	0.701	0.738	0.741	0.751	0.716	0.782	0.774
2	0.807	0.810	0.840	0.785	0.721	0.774	0.779	0.804
3	0.790	0.769	0.843	0.804	0.764	0.807	0.848	0.812
4	0.865	0.857	0.871	0.868	0.848	0.826	0.843	0.880
5	0.790	0.782	0.804	0.826	0.790	0.761	0.793	0.777
6	0.777	0.744	0.721	0.736	0.766	0.759	0.782	0.801
7	0.812	0.812	0.848	0.854	0.774	0.790	0.801	0.823
8	0.829	0.774	0.721	0.848	0.818	0.799	0.777	0.810
9	0.793	0.744	0.761	0.785	0.796	0.790	0.764	0.777
10	0.744	0.736	0.807	0.874	0.877	0.883	0.848	0.857
11	0.863	0.865	0.885	0.880	0.888	0.880	0.871	0.871
12	0.888	0.799	0.834	0.810	0.832	0.796	0.829	0.823
13	0.815	0.764	0.782	0.804	0.793	0.785	0.785	0.793
14	0.818	0.823	0.840	0.826	0.832	0.799	0.810	0.788
15	0.772	0.741	0.793	0.697	0.810	0.832	0.779	0.807
16	0.832	0.793	0.751	0.818	0.810	0.854	0.834	0.820
17	0.843	0.854	0.851	0.854	0.903	0.837	0.851	0.854
18	0.848	0.815	0.788	0.741	0.764	0.757	0.779	0.578
19	0.562	0.537	0.572	0.671	0.586	0.694	0.741	0.718
20	0.716	0.663	0.678	0.598	0.560	0.574	0.546	0.578
21	0.566	0.529	0.514	0.539	0.562	0.566	0.582	0.562
22	0.578	0.594	0.704	0.793	0.637	0.671	0.678	0.652
23	0.596	0.568	0.550	0.630	0.564	0.524	0.520	0.505
24	0.545	0.539	0.564	0.622	0.652	0.657	0.687	0.777
25	0.818	0.769	0.682	0.615	0.592	0.620	0.541	0.501
26	0.492	0.524	0.568	0.537	0.516	0.509	0.480	0.496
27	0.501	0.537	0.556	0.543	0.572	0.576	0.588	0.564
28	0.598	0.535	0.498	0.528	0.592	0.633	0.590	0.574
29	0.582	0.592	0.596	0.626	0.678	0.652	0.644	0.617
30	0.615	0.613	0.635	0.615	0.633	0.641	0.635	0.622
平均 Means.	0.725	0.706	0.720	0.729	0.723	0.725	0.726	0.721

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	68.4	68.7	70.2	70.3	70.7	69.3	71.9	71.6
2	72.8	72.9	74.0	72.0	69.5	71 6	71.8	72.7
3	72 2	71.4	74.1	72.7	71.2	72.8	74 3	73.0
4	74.9	74.6	75.1	75.0	74.3	73.5	74.1	75.4
5	72.5	71.9	72.7	73.5	72.5	71.1	72.3	71.7
6	71.7	70.4	69.5	70.1	71.3	71 0	71.9	72.6
7	73.0	73.0	74 3	74.5	71.6	72 2	72 6	73.4
8	73.6	71.6	69 5	74.3	73.2	72.5	71.7	72.9
9	72.3	70.4	71.1	72 0	72 4	72 2	71.2	71.7
10	70.4	70.1	72.8	75.2	75.3	75.5	74.3	74.6
11	74.8	74.9	75.6	75.4	75.7	75.4	75.1	75.1
12	75.7	72.5	73.8	72.9	73.7	72.4	73.6	73.4
13	73.1	71.2	71.9	72.7	72.3	72.0	72.0	72 3
14	73.2	73.4	74 0	73.5	73.7	72.5	72 9	72.1
15	71.5	70.3	72.3	68.5	72.9	73.7	71.8	72.8
16	73.7	72.3	70.7	73.2	72.9	74.5	73.8	73.3
17	74.1	74.5	74.4	74.5	76.2	73.9	74.4	74.5
18	74.3	73.1	72.1	70.3	71.2	70.9	71.8	68.1
19	62 3	61.0	62.8	67.4	63.5	68.4	70.3	69.4
20	69.3	67.3	67.7	64.1	62 2	62.9	61.5	63.1
21	62.5	60.6	59.8	61.1	62.3	62.5	63.3	62 3
22	63.1	63.9	68.8	72.3	65 9	67.4	67.7	66.6
23	64.0	62.6	61.7	65.6	62.4	60 3	60.1	59.3
24	61.4	61.1	62 4	65.2	66.6	66.8	68.1	71.7
25	73.0	71.4	67.9	64.9	63.8	65.1	61.7	59.1
26	58.6	60.3	62.6	61.0	59 9	59.5	57.9	58.8
27	59.1	61.0	62.0	61.3	62.8	63.0	63 6	62.4
28	64.1	60.9	58.9	60.5	63.8	65.7	63.7	62.9
29	63.3	63.8	64.0	65.4	67.7	66.6	66.2	65.0
30	64 9	64.8	65.8	64.9	65.7	66.1	65.8	65.2
平均 Means.	69.3	68.5	69.1	69.5	69.2	69.4	69.4	69.1

明治十九年九月

SEPTEMBER. 1886.

日次 Date.	寒暑鍼 THERMOMETER. 午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	72.1	71.8	80.3	84.7	86 0	79.2	79.0	77.5
2	74.2	73.2	75.7	86.0	88.2	80 0	77.1	74.6
3	73.6	72 3	78.2	85.0	86.0	79.8	75.7	74.0
4	75.1	76.0	82.3	83.0	85.8	79.7	78 5	76.8
5	76.2	77.0	82.2	85.8	83.3	79.5	76.0	76.0
6	75.4	75.5	82.0	85.2	85.8	79.6	77.0	76.0
7	75.2	74.4	82.3	86.0	85.5	81 8	78.9	76.0
8	74.6	74.0	82.9	87.0	84.9	80.5	77.1	75.5
9	74.0	71.6	79.7	86.0	89.2	81.8	78.0	74.9
10	72.3	71 0	80.8	80.5	77.7	79.2	79.0	78.0
11	78.2	79.0	82.3	83.7	81.4	79.8	79 2	79.2
12	78.9	76.1	83.3	85.2	86.7	81.3	77.8	76.0
13	75.0	73.4	77.0	80.2	80.7	77.8	75.2	74.7
14	74 2	74.1	76.7	81.0	86.8	80 5	77.5	73.5
15	72.2	70.3	76.7	85.0	85.7	79.9	75.0	75.9
16	75.6	75.4	79.9	85.0	83.2	79.5	78.5	77.4
17	77.5	77.9	83 0	85.2	82.0	79.0	78.8	77.7
18	78.0	78.2	79 2	82.0	82.0	79.2	77.1	74.9
19	71.5	70.0	78.0	83.2	83.6	74.6	71.2	70.3
20	70.5	68.9	71.3	72.8	73.5	70.0	68.0	67.4
21	67.0	66.0	67.0	68.3	71.1	67.9	66.9	65.1
22	64.0	64.1	75.0	75.7	74.5	72.5	70.2	68.9
23	69.0	68.0	70.5	70.2	66.4	63.0	62.0	63.0
24	62.0	62.0	63.0	67.0	68.0	67.3	68.5	76.6
25	76.9	78.4	72.8	80.7	83.6	74.9	70.0	67.0
26	65.0	61 8	63 2	62.7	61.0	59.9	59.0	59.2
27	60 0	61.2	64.5	72.6	75.3	70.5	68.9	66.9
28	64.9	63.8	67.5	76.2	78.1	71.0	69.2	65.8
29	64.9	64.2	69.7	72.0	69.5	68.0	66.7	65.0
30	65.6	65.2	69.0	70.6	70.3	69.5	66.9	65.7
平均 Means.	71.8	71.2	75.9	79.6	79.9	75.6	73.4	72.3

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.938	29.975	29.991	29.968	29.955	29.981	30.025	30.038
2	30.047	30.061	30 077	30.054	30 015	30.026	30 041	30.041
3	29.995	30.022	29.994	29.933	29.886	29 893	29.905	29.862
4	29.743	29.743	29.732	29.733	29.718	29 742	29.795	29.808
5	29 813	29.857	29.876	29.865	29.847	29.876	29.918	29.921
6	29.921	29.932	29.952	29.934	29.913	29.927	29.963	29.966
7	29 910	29.974	29.996	29.973	29.926	29.930	29.938	29.902
8	29.856	29.852	29.833	29.819	29.806	29 849	29.898	29.913
9	29.920	29.948	29.977	29.953	29.909	29 914	29.920	29 868
10	29.662	29.800	29 837	29.851	29.839	29.856	29.907	29.897
11	29.847	29.857	29.865	29.856	29.847	29.872	29.908	29.902
12	29.922	29.958	30.000	30 011	29.994	30.019	30.076	30.095
13	30.104	30.167	30.191	30.154	30.134	30.164	30.189	30.171
14	30.158	30.164	30.169	30.126	30.071	30.066	30.088	30.065
15	30.031	30.037	30.035	30.001	29.955	29.943	29.959	29.943
16	29.945	29.958	29.955	29.941	29.916	29.935	29.963	29.946
17	29.923	29.925	29.926	29.886	29.844	29.841	29.847	29.805
18	29.772	29.765	29.773	29.723	29.721	29.757	29.804	29.841
19	29.898	29.937	29.981	29.962	29.933	29.969	29.988	29.983
20	29.991	30.033	30.070	30.035	30.056	30.087	30.150	30.158
21	30.162	30.177	30.195	30.164	30 109	30.081	30.057	29.966
22	29.876	29.801	29.742	29.706	29.658	29.659	29.703	29 755
23	29.796	29.863	29.935	29.946	29.945	29 986	30.051	30 013
24	30.001	29.995	29.995	29.942	29.887	29.816	29.817	29.709
25	29.612	29.583	29.672	29.689	29.690	29.756	29.821	29.883
26	29 910	29.964	30.018	30.007	29.995	29.989	29.976	29.921
27	29.846	29.793	29.856	29.924	29.931	29.993	30.062	30.079
28	30.103	30.151	30.194	30.180	30.132	30 171	30.197	30.182
29	30.116	30.174	30 173	30.125	30.108	30.101	30.098	30.064
30	30.030	30.033	30.031	29.997	29.932	29.948	29.962	29.925
平均 Means.	29.929	29.950	29.968	29.950	29.924	29.938	29.907	29.952

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level.			寒暑鍼 Thermometer.			露點溫度 平均 Mean Temp. of Dew point.	蒸發力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat. =100).	無氣中日溫度 高極 Vacuum solar radiation Max.	日溫度 高極 Solar radiation Max.	地溫度 低極 Terrestrial radiation Min.
	平均 Mean.	高極 Max.	低極 Min.	平均 Mean.	高極 Max.	低極 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	29.984	30.038	29.938	78.8	86.5	71.0	70.1	0.737	75	149.5	113.0	55.3
2	30.015	30.077	30.015	78.6	88.8	73.0	72.2	0.790	82	149.5	111.6	57.0
3	29.936	30.022	29.862	78.1	88.3	71.8	72.7	0.805	85	155.9	116.0	57 2
4	29.752	29.808	29.718	79.7	86 0	73.2	74.6	0 857	84	146.7	107.4	57.2
5	29.872	29.921	29.813	79.5	85.7	75.2	72.3	0.793	79	149.0	109.5	58.5
6	29.939	29.936	29.913	79.6	86.9	74.4	71.1	0.761	76	150.1	110.9	57.0
7	29.947	29.996	29.902	80.0	88.2	74.0	73.1	0.814	80	158.0	115.0	56.5
8	29.853	29.913	29.806	79.6	89.2	72.1	72.4	0.797	80	151.5	113.0	58.0
9	29.919	29.977	29.803	79.4	* 90.2	71.0	71.7	0.776	78	153.1	* 118.6	54 0
10	29.831	29.907	29.662	77.3	83.8	70.1	73.5	0.828	88	148.0	107.4	54.9
11	29.869	29.903	29.847	80.4	84.4	77.5	75.3	0.875	85	147.7	103.2	61.0
12	30.009	30.095	29.922	80.7	83.5	75.3	73.5	0.826	80	* 158.5	115.8	58.8
13	30.159	30.191	30.104	76.8	84.5	72.7	72.2	0.790	86	145.5	110.0	58.3
14	30.113	30 169	30.065	78.0	87.7	73.2	73.2	0.817	86	155 0	114.5	56.7
15	29.938	30.037	29.943	77.6	86.1	70.0	71.7	0.779	84	149.9	114.6	54.0
16	29.945	29.963	29.916	79.3	86.5	70.5	73.1	0.814	82	155.2	111.2	56.7
17	29.875	29.926	29.805	80.1	86.7	77.0	74.6	0.856	83	152 2	110.1	60.0
18	29.770	29.841	29.721	78.8	85.4	75.5	70.9	0 759	77	142.2	114.3	54.0
19	29.956	29.938	29.898	75.3	86.0	69.1	65.6	0.636	74	149.0	112.5	50 8
20	30.076	30.158	29.991	70.3	74.8	66.9	64.8	0.615	83	101.8	88.9	50.0
21	30.114	30.195	29.936	67.4	71.1	64.5	61.8	0.553	83	102.8	85.8	49 1
22	29.738	29.876	29.658	70.6	76 3	63.0	67.0	0.663	89	120 2	85.3	49.0
23	29.942	30.051	29.793	66.5	71.4	61.7	62 0	0.557	86	90 0	67.5	46.0
24	29.895	30.001	29.709	66.8	69.8	61.0	65.4	0.630	96	104.8	83.0	46.8
25	29.714	29.883	* 29.568	75.5	82.5	66.0	65.9	0.642	73	142.8	104.0	45.5
26	29.973	30.018	29.910	61 5	67.7	* 58.0	59.8	0.515	95	75.0	70.0	* 43.7
27	29.936	30.079	29.793	67.5	75.5	58.4	61.9	0.555	83	147.4	106.8	44.0
28	30.164	* 30.197	30.106	69.6	79.1	62.5	62.6	0 569	79	146.6	108.2	44.8
29	30.120	30.174	30.064	67.5	75.0	63.8	65.3	0.623	93	124.2	90 0	49.2
30	29.989	30.033	29.925	67.9	71.0	64.6	65.4	0.626	92	103.0	86.0	45.4
平均 Means.	29.947	...	...	75.0	...	...	69.2	0.722	83	...	...	...
至極 Max. & Min.	...	30.197	29.568	...	90.2	58.0	...	...	...	158.5	118.6	43.7

凡例

一 風雨鍼ハ氷點及海面ニ改正ス

一 寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一 露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一 風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一 天候ノ表中降雨、降雪、霰、霧、雲ノ種類ハ悉皆觀望ノ時數ヲ揭ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一 磁氣偏差ハ連日午前七時傾差及地平磁針力ハ連月兩回之ヲ觀測ス

一 此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一 偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一 搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

氣象及磁氣月報

東京

海軍水路部觀象臺

明治十九年九月

MONTHLY REPORT

OF THE

METEOROLOGICAL AND MAGNETICAL OBSERVATIONS,

DURING

SEPTEMBER 1886,

AT THE

NAVAL OBSERVATORY,

IN THE

HYDROGRAPHIC OFFICE.

TOKIO.